



BEST AVAILABLE COPY

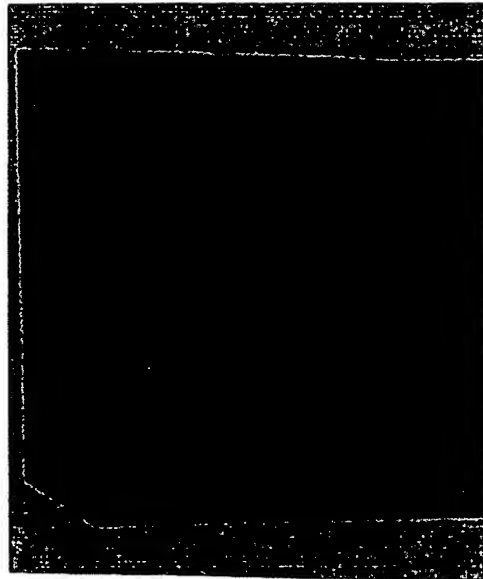


FIG. 1

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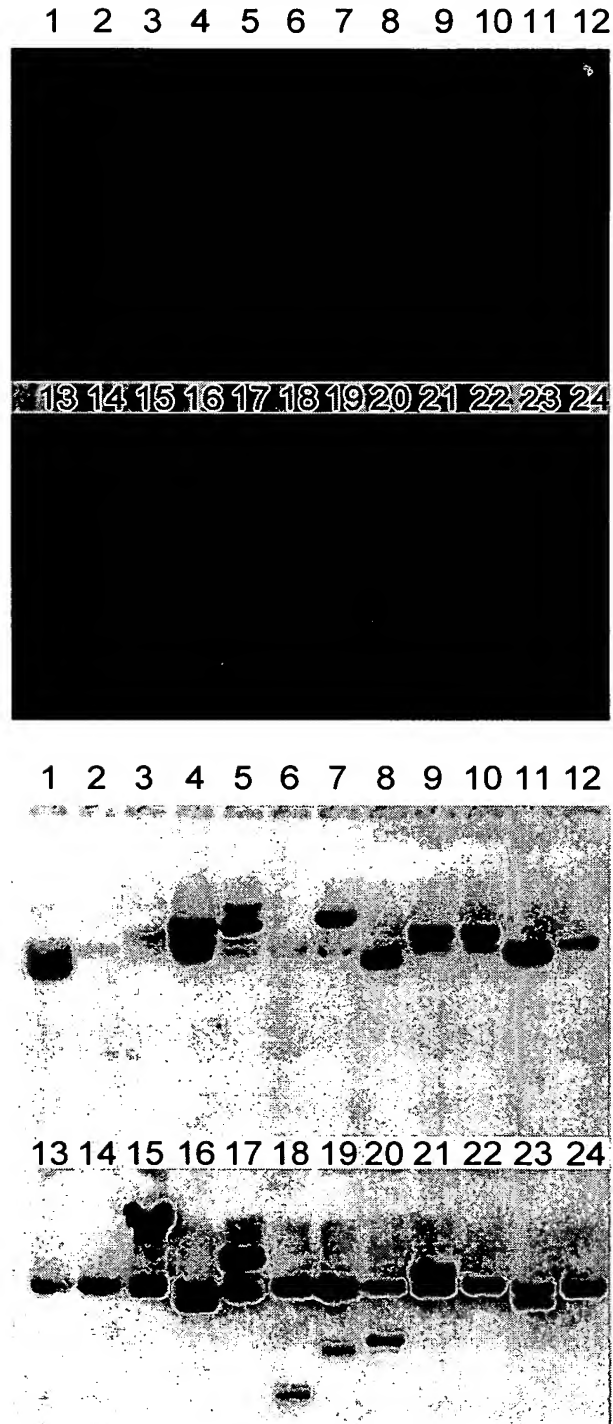


FIG. 2

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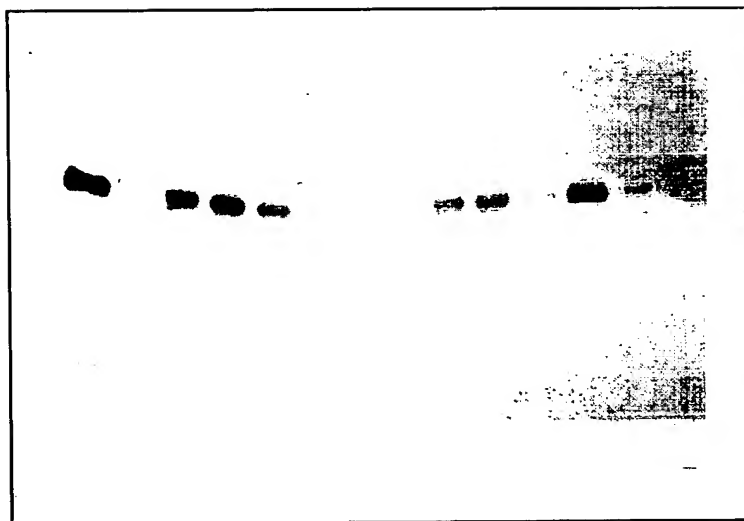


FIG. 3

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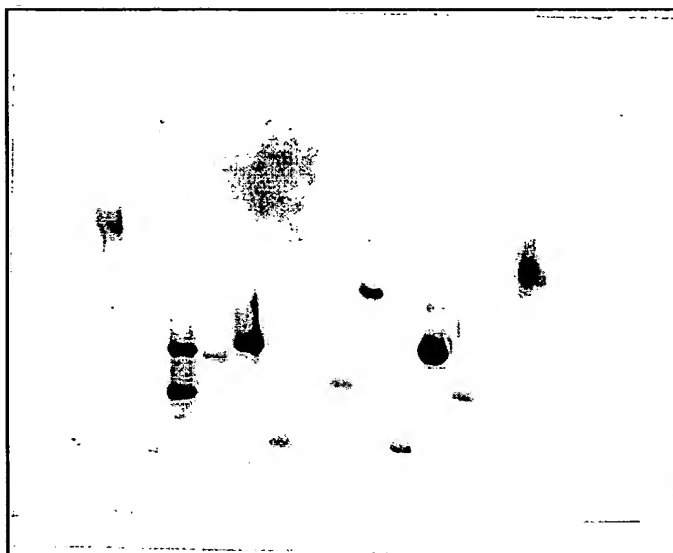


FIG. 4

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FIG. 5

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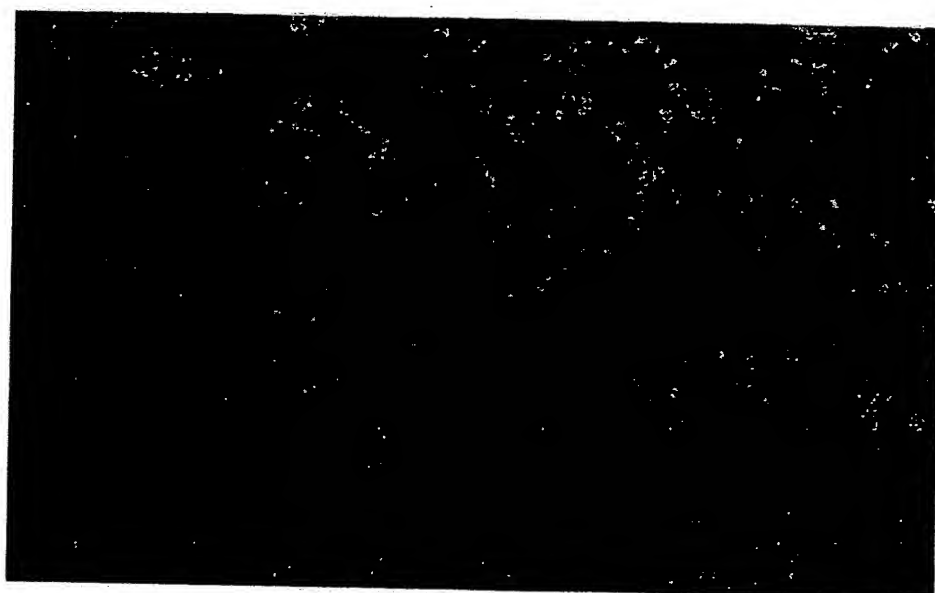


FIG. 6

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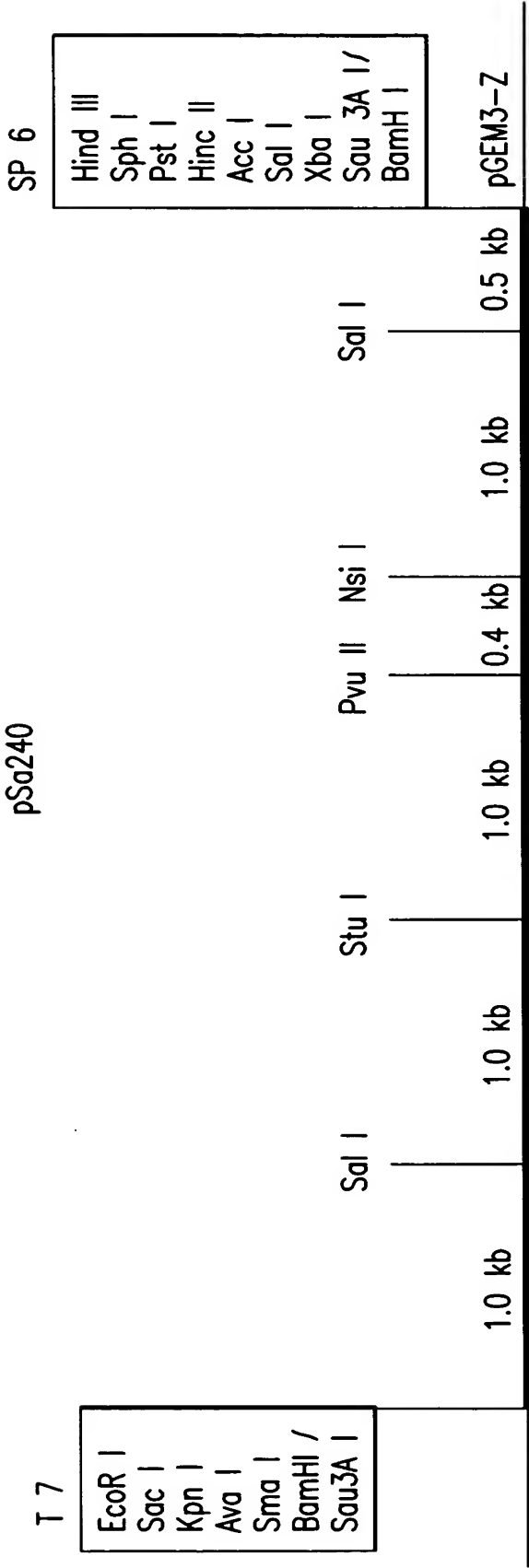


FIG.7

Application No.: 10/717,381  
Group Art Unit: 1652  
REPLACEMENT SHEET

Sa240 DNA sequence (4,826 bp)

gatcggcggc	cggtcggcgg	tgctggccgc	ggtgaccctg	ggggcgctgg	ccgctccggc	60
ggtgctgctg	cgccgggggc	tggcgccac	cgcggaggcg	ctggcggcgc	tggccctggt	120
gctgacgctg	ctggacgtgt	acgcgggtcca	cgcggtgcc	gcgccggaca	ccgacggact	180
cggcttcacg	gccctcgcgt	cggcggtgct	cgcggcgctg	tggacggcgt	acgggctggc	240
gctgggcaag	ctgcgcctgc	cgttgccggc	cgccgtggtg	ctggcccagt	ggccgctgct	300
gttctggggc	tgggccgtgg	gcgcaccggc	gccggtggtc	gggtgggcgc	tgctggccac	360
cgcggtgctg	gacggggcga	tcgccctgtg	gggcaagggc	gccgggggtg	gggtcacggc	420
gtgcgtcggg	ggagcgggtga	tgggcttctc	ggccctgatg	gtgggcctgg	cgctgtccct	480
gacggccccg	gggccgctcg	gggcgggtgg	tccgggcgtg	ctgctgctga	cggcctcggc	540
ggcggccgtg	gccggggcgt	ggcgcgcgcc	gaagggtttc	gcgcggacgg	gtggtgcggt	600
ggcggggctc	gcggcgggtg	cggccgtcgg	cggcgtaccg	gcggcggcgc	tccggcggg	660
ctggcggggtg	ctcgcgtacc	tgctgtgcgg	tctcgcgttg	acggcggtcg	tccgttcccc	720
gctgccgggc	cacgccgcgc	gcgggggtact	ggcggcgctg	ggggcggtgg	tggccggcgc	780
gctggtgtgg	gcgctgccgc	cgctcgcggc	ggtgctgctg	gggcccgtga	cgggtgctgc	840
ggacgtgtgg	gcggggacgc	cggacggctt	ccggtccgcg	ctggggtcga	cgctgccctg	900
gtcggagctg	gccgcggccc	cgggtggtgct	cgcgctggtg	gccgggcatg	ctgggggcga	960
gcgtaaccgg	aggtggccgt	cggtcgtccg	gctccggcgc	cgttggccgg	tccttctggc	1020
tcgacgccgg	ccccccggca	gcaccggcag	cgggagcccc	gggcacggat	gcgccggggc	1080
cggccggggg	cgctgcgcgc	tggcccggct	ggtccggctg	gtccggccgg	cccgggtgcg	1140
gggcccgtgg	tcgcgggcgg	ccttccgcgg	cgacgctgcg	cggggtcgtc	ggcgcggggc	1200
cggtggcgct	cggctggggg	gccctcctgc	tggccggcgc	gctgctggac	gtgccccacg	1260
cgctcgcgct	ggccggggag	acggctcttg	tgggcgtcct	gctcgccctg	gcggtccggg	1320
gtggcggcgc	cgagcggggc	gcgacggcga	tgccggtgac	cgctctggtg	gcttcgggtg	1380
ccggggcggt	gagcgccggg	ctgctgtcgc	tggcgtccga	gggggcctcg	tacgcggtgt	1440
tcggcgcgct	ggcggcgctg	ttcgccgggg	ccgctctgcg	ggcgggcgcc	ggggtgccgc	1500
gtgcggtgtt	cgcggtcgcc	gcggtggtct	ggggcaccgt	gatcacgggg	ttggcggggc	1560
ggtccctggg	gctcgccccg	cacgaggccg	ccccgctgat	gctgctggtg	ccggcgctga	1620
cgggtgctgct	cggggcacga	ctgcggcgga	accggtggc	cttgcccgtg	gagctgacgg	1680
gagcgctggg	cgcgctcgtc	gccgtggggc	tcgcggtgtc	cgacgcgccg	ttcctggccc	1740
tggtgctggc	gctgtgcggg	gtgctggcgg	cggggacggc	ggtgcggccg	gagcggcggc	1800
cggtggcggg	ctacctggcg	gcgacgctgt	tcgtgctggc	cacgtgggtg	cggctggcgg	1860
cctcgagggt	gtcgttcccc	gaggcgtaga	cgctgccggt	gacggtgccc	gcgctgctgg	1920
tcggtgcggc	gcggcggcgc	cgggaccggg	aggcctcgtc	gtggacggcg	tacggggcgg	1980
ggctcgcggc	gacgctgctg	cccagcctgg	cggtcgcctg	gaccgaccgg	gactgggtca	2040
ggccgttgct	gctggggacg	gcggcgctgg	tgataccct	gctcggcgcg	cgccaccggc	2100
tccaggcgct	gctgctgctc	ggcgggacgg	tgctggcact	ggtcggcctg	cacgagctgg	2160
cgccgtacgt	ggtgcaggtc	gcgggtgcgc	tccccgctg	gctcccgcgc	gccctggccg	2220
ggctgttggt	gctggtggtc	ggagcgacgt	acgagcagcg	gctgcgggac	gcccgcgctc	2280
tgaaggacgc	gctggggcgg	atgcggtgag	ccgtgcccgg	tccggggggc	cgcaggtcac	2340
ggcgtccccg	ggccgggcgc	cagtggcggtg	ggcaacgcag	agggcccggc	cctctgtccg	2400

FIG.8A



Application No.: 10/717,381  
Group Art Unit: 1652  
REPLACEMENT SHEET

ggtgggcat	actgggttcg	aaccagtgac	ctcttcggtg	tgaacgaagc	gctctccac	2460
tgagctaadc	gcccgggagc	accgcaaaca	ttaccccatg	tcagcgggtg	tcccggaccg	2520
tccccgggct	actcgctgat	cttccacggc	atggtgagcc	cgaacttcca	gacgtagatc	2580
ccggccagca	ccgcatgat	cacgagcccg	agcgtggtga	ggatgatggt	gcgccgccgg	2640
accttgggat	cgaggggccc	ctgcgccgct	tcggtgacct	tgcgcttggt	ccagcgcagc	2700
accagctggg	cccagacgaa	ctcggtcgcc	cagatcgcca	tgccgccgaa	gatcaccagc	2760
cagccggggc	ccggcagcac	cagcatgagc	acaccgcga	tcaccacgcc	gagaccgacg	2820
atgaagacac	cgacctgcca	gctcaggtgg	agcgccttgg	acgccttgat	gaaaccggc	2880
gcccgcgagc	ccagcgcgcg	ttcctcccgg	tccgattccc	ccgtggcgga	taccggggac	2940
gcctgtctcg	cgaccttgct	ccgctcgtca	ctctccgcgt	tcatgaagct	caacttacc	3000
gacctgtctc	cgtcactgga	atgggcgcac	aactcaaagt	tacacgccgc	tgagcggggg	3060
acccgaagcg	tcacaaatgg	gtcagagggg	tttacaacgc	caccgtaggt	ggcatgtcga	3120
tttcgccgac	gtgcgaatcc	ccgagcgcac	actgagcgaa	aggccctggc	gcttatgaac	3180
accacggtca	gctgcgagct	gcacctgcgc	ctcgttgtgt	cgagcagagc	ctcactgcct	3240
gtacccgcgg	gcctgcggta	tgacacggcc	gatccctatg	ccgtgcacgc	caccttccac	3300
accggagcgg	aggagacggt	cgaatgggta	ttcgcccgcg	acctccttgc	cgaggggctg	3360
caccggccca	ccggcaccgg	agacgtccgc	gtctggccat	ctcgtagtca	cggtaaggc	3420
gtcgtatgca	tcgccctgag	ctccccagag	ggagaagccc	tgctcgaagc	cccggcgcg	3480
gccctggagt	cgttcctgaa	gaggaccgac	gccgcggttc	cgcccggcac	cgagcatcgt	3540
cacttcgatc	tcgacacgga	gctctccac	atcctggccg	agagctgagc	caggcagaga	3600
gccgtcttac	gccgtccgac	tcggggcgac	ggcgtcgtgc	tgacaaccgc	atagggcaga	3660
caccggcgcc	gtcgtcgcgg	aatccaccgc	gacgacggcg	ccggcgcggt	ccccgccgcg	3720
ccgccggagg	ggtccgttcc	gctctccgcc	gggcccgcac	cgggcccggc	accggccggc	3780
cgagccagta	gagtcagccg	ccatcggcag	gcgcccgcgc	gccggaaggc	cagggagcga	3840
agcgtgctga	tccttcacga	caccgggac	gccctcgacg	cgggtggtcga	tctggtgaac	3900
accgcaccgg	agagcagagc	gccgggggac	gaccccggcg	acagacacgc	gggcgggccc	3960
gaggacggtc	tccccgacat	cgccgcgctg	tacgccttcg	cggagcgcca	tctcatcagc	4020
ggggtcggca	ccctcggcga	gaaggacctc	ggcgccgtgc	gcgacgtccg	ggcccgttc	4080
gccgaggtct	tcgcggcgcc	cgacgcccgc	gtcgccgcgc	acctggtcaa	ccggctcgtc	4140
gcggcgggcg	ggaccacccc	gcagctcacg	gaccacgacg	gctacgactg	gcacgtgcac	4200
tacttcgccc	cggacgcctc	gatcgccgac	catctcgcgg	ccgactgcgg	catggcgctg	4260
gccttcatca	tcgtggcggg	cgagcaggag	cggctgcggc	gctgcgaggc	cccggactgc	4320
gggcacgcgt	tcgtcgacct	gtcgcgcaac	cgctcccgc	gctactgctc	cagccgtacg	4380
tgcggaacc	ggctccacgt	cgcggcgtac	cgggcccggc	gcaaggaagc	cgcgggctga	4440
cgcccggcac	ggtggcgcg	ggcgtcacag	cacgaagaga	tcgtgcagcg	cggccatcag	4500
cagcaggccc	ccgatcaccg	tcaggaagat	catcaggggc	ggctgggaga	gcgcgaaaag	4560
acagccgcgg	gcctcttcgg	cggggggtgc	gggggcatcg	ccccgggaag	tgtccaccat	4620
ctcgggggtga	tcatgacgca	ccggcggcgg	tggtggcgat	caaccggctt	cattctcccg	4680
ggagttcacc	gtcccgtggc	catcgatatt	cgctccggcg	tacggggagc	cgtcagacat	4740
tcggaccgcc	gcccgggaacg	cacgccggcg	gggcccggcg	acgcctcgga	cgccgcgctt	4800
ctcagatgcc	gtgcttcttg	aggatc				4826

FIG.8B

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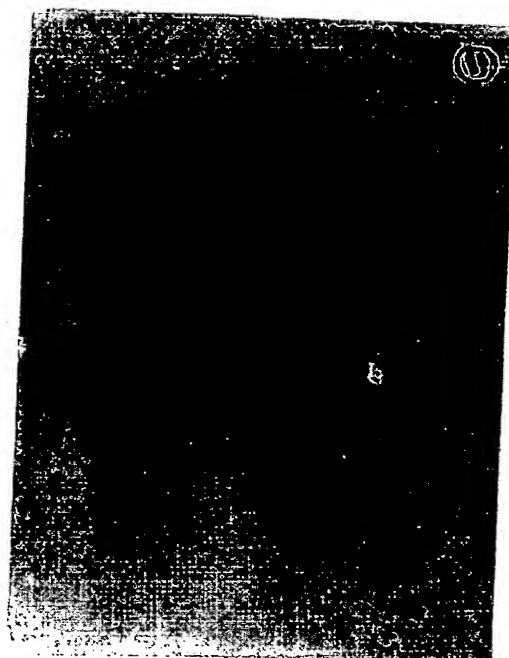
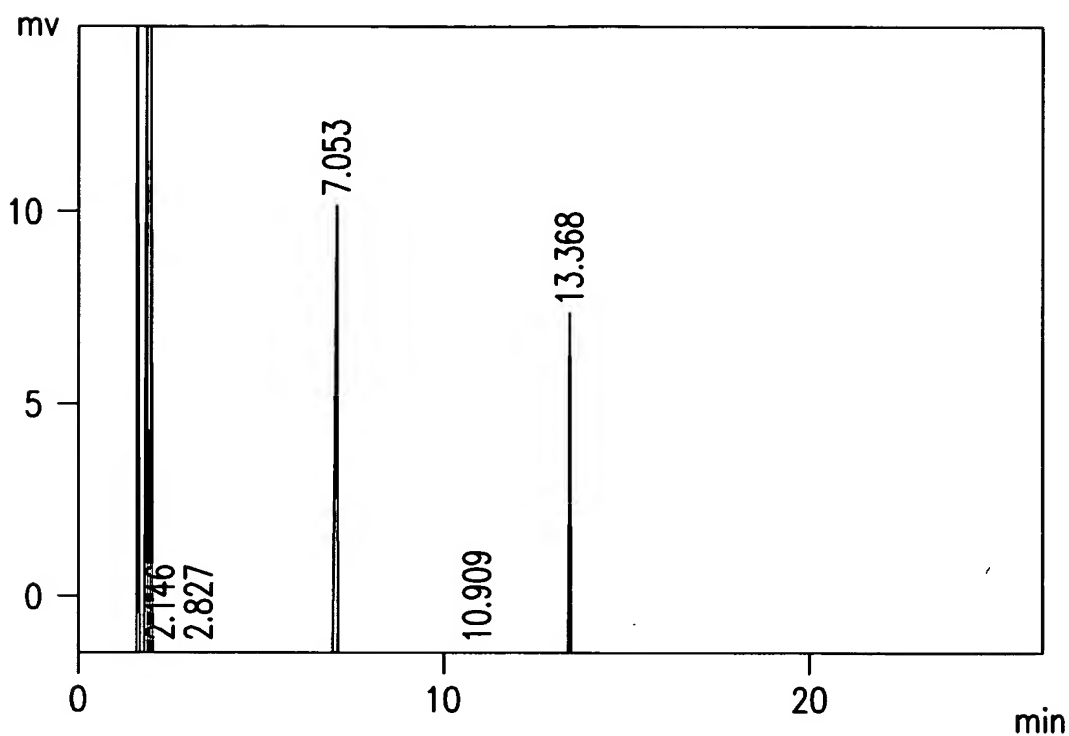


FIG. 9

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\*\*\* Peak Report \*\*\*

KNO	TIME	AREA	HEIGHT	MK	IDNO	CONC	NAME
1	1.742	1090524	630697	V		16.3090	
2	1.803	2759591	1055567	VE		41.2702	
3	1.931	841734	440026	V		12.5883	
4	1.989	1899444	1050304	SVE		28.4066	
5	2.146	1222	1166	T		0.0183	
6	2.827	1691	1181	V		0.0253	
7	7.053	56479	14295			0.8447	
8	10.909	1014	280			0.0152	
9	13.388	34942	11651			0.5226	
		6686640	3205166			100.0000	

FIG.10

16 May 2000

Acquisition Time (sec)	20480	Commers	PTCDDCL3	Date	16/05/90 13:31:28
Frequency (MHz)	200.13	Nucleus 1H	Number of Transfers 512	Original Points Count	8192
Sweep Width (Hz)	4000.00		Temperature (grad C) 24.000	Points Count	8192

No.	(ppm)	Height
1	0.01	0.381
2	1.30	0.972
3	2.57	0.260
4	5.28	0.170
5	7.28	0.108

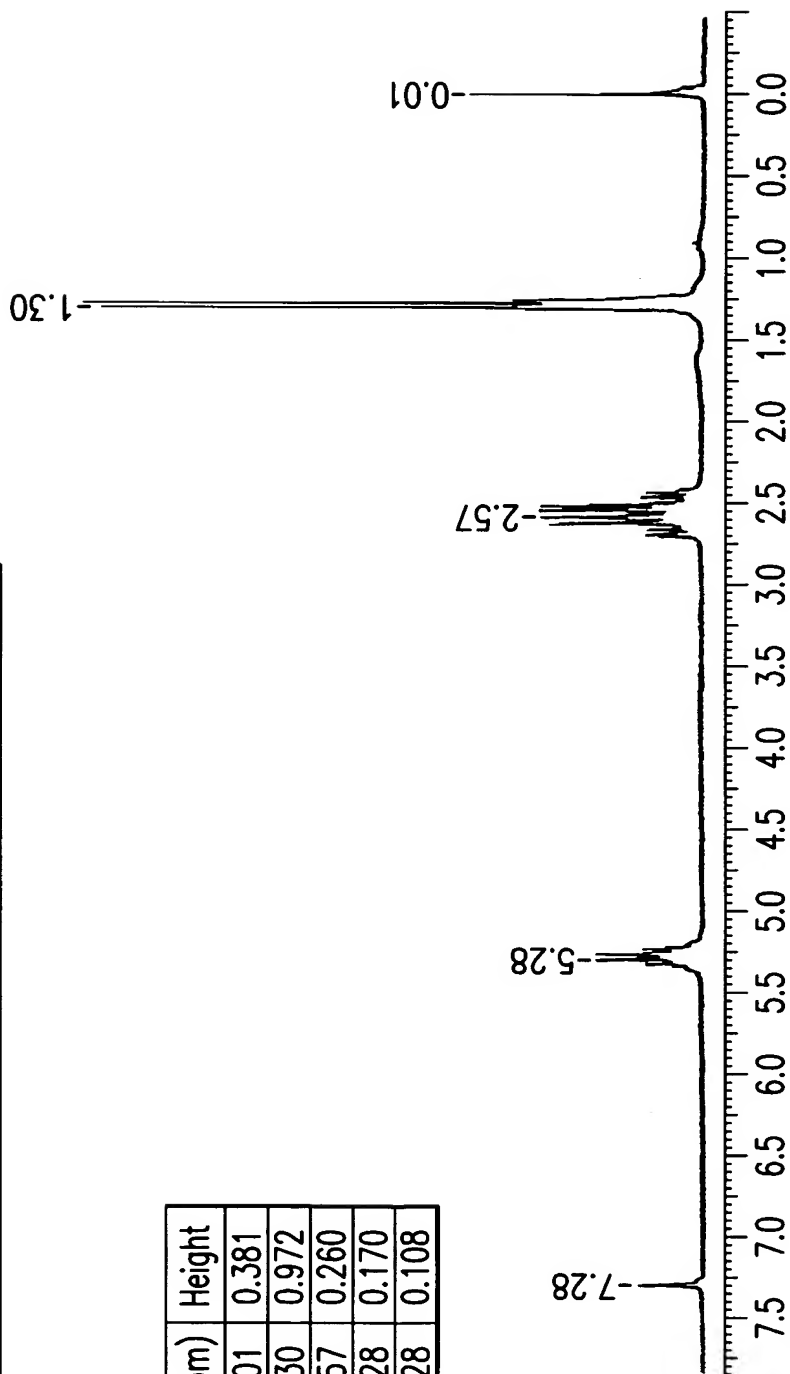


FIG.11

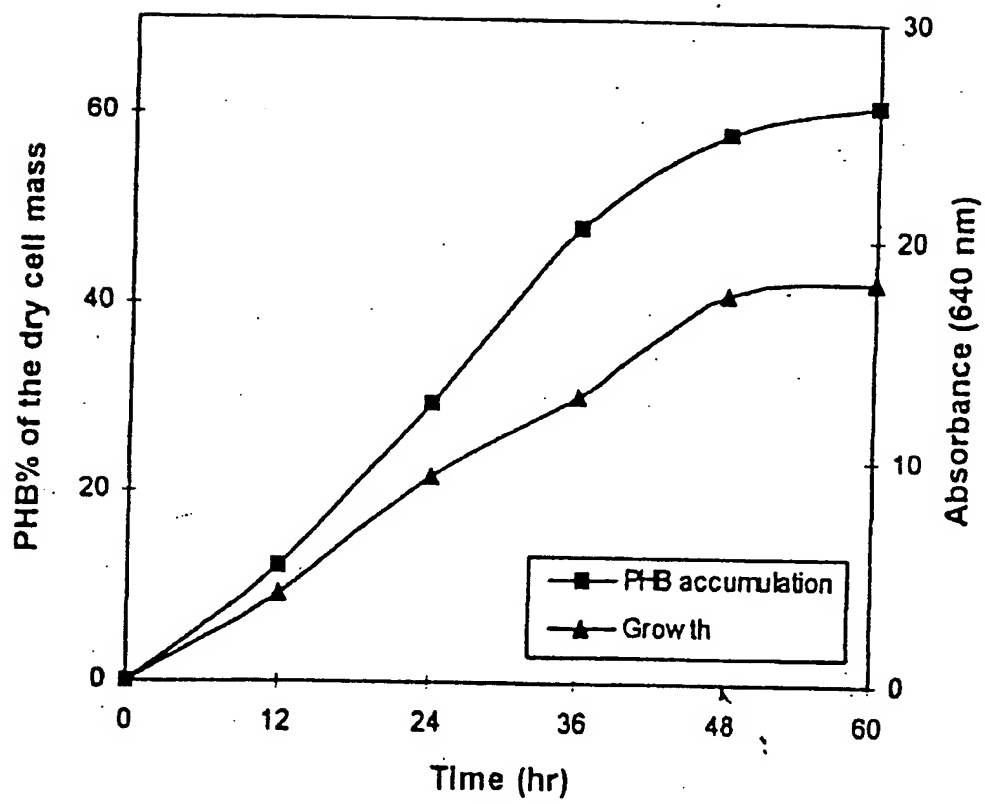


FIG. 12